

Reply to Office Action of May 16, 2008

11. (Currently amended) The superconductive microstrip filter of ~~anyone of claim 65~~, wherein the interval between any two neighboring U-type superconductive microstrip resonators is determined in accordance with particular requirements for designing said filter.

12 - 15. (Canceled).

16. (Currently amended) The superconductive microstrip filter of ~~anyone of claims~~ claim 5, wherein, as for the U-type superconductive microstrip resonator which is closest to said input coupling line among said plurality of U-type superconductive microstrip resonators, one side of said open end thereof being closer to said input coupling line has a top end aligned with the top portion of said input coupling line.

17 - 21. (Canceled).

22. (Currently amended) The superconductive microstrip filter of ~~anyone of claims~~ claim 5, wherein, as for the U-type superconductive microstrip resonator being closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, one side of said open end thereof being closer to said output coupling line has a top end aligned with the top portion of said output coupling line.

23 - 27. (Canceled).

28. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators, wherein:

each of said plurality of U-type superconductive microstrip resonators are formed using a superconductive microstrip line;

Reply to Office Action of May 16, 2008

 said plurality of U-type microstrip resonators are configured such that the number of poles of the microstrip filter can be increased without increasing the size of the superconductive microstrip filter;

 said length of the two sides of each of said plurality of U-type microstrip resonators are unequal such that each of said plurality of U-type microstrip resonators has a long side and a short side; and

 said plurality of U-type microstrip resonators are arranged such that the two sides of each of said plurality of U-type microstrip resonators are parallel with each other, and any two neighboring U-type microstrip resonators in said plurality of U-type microstrip resonators are arranged axisymmetrically and in parallel with each other.

29. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, said superconductive microstrip filter apparatus further comprising:

 an input coupling line for receiving signals to be filtered and coupling-outputting said signals; and

 an output coupling line, for coupling-outputting said signals outputted by said plurality of U-type superconductive microstrip resonators.

30. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, wherein the whole length of said superconductive microstrip line is half the wavelength corresponding to the center frequency of said superconductive microstrip filter.

31. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, wherein said long side of each of said plurality of U-type microstrip resonators is closer to a symmetrical axis of said axisymmetrical arrangement than said short side.

Reply to Office Action of May 16, 2008

32. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, wherein said short side of each of said plurality of U-type microstrip resonators is closer to a symmetrical axis of said axisymmetrical arrangement than said long side.
33. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 29, wherein as for the U-type superconductive microstrip resonator being closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, one side of said open end thereof being closer to said output coupling line has a top end aligned with the top portion of said output coupling line.
33. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators, wherein:
- said length of the two sides of each of said plurality of U-type microstrip resonators are unequal such that each of said plurality of U-type microstrip resonators has a long side and a short side; and
- said plurality of U-type microstrip resonators are arranged such that the two sides of each of said plurality of U-type microstrip resonators are parallel with each other, and any two neighboring U-type microstrip resonators in said plurality of U-type microstrip resonators are arranged axisymmetrically and in parallel with each other.
34. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 33, said superconductive microstrip filter apparatus further comprising:
- an input coupling line for receiving signals to be filtered and coupling-outputting said signals; and

Reply to Office Action of May 16, 2008

an output coupling line, for coupling-outputting said signals outputted by said plurality of U-type superconductive microstrip resonators.

35. (New) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 34, wherein as for the U-type superconductive microstrip resonator being closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, one side of said open end thereof being closer to said output coupling line has a top end aligned with the top portion of said output coupling line.

36. (New) A superconductive microstrip filter apparatus comprising:
a plurality of U-type superconductive microstrip resonators, wherein:

 said length of the two sides of each of said plurality of U-type microstrip resonators are unequal such that each of said plurality of U-type microstrip resonators has a long side and a short side; and

 said plurality of U-type microstrip resonators are arranged such that the two sides of each of said plurality of U-type microstrip resonators are parallel with each other, and any two neighboring U-type microstrip resonators in said plurality of U-type microstrip resonators are arranged axisymmetrically and in parallel with each other;

and

an output coupling line, for coupling-outputting said signals outputted by said plurality of U-type superconductive microstrip resonators, wherein:

 as for the U-type superconductive microstrip resonator being closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, one side of said open end thereof being closer to said output coupling line has a top end aligned with the top portion of said output coupling line.